

FEATURES

- Front panel touch screen control
- RS-422 machine control
- Records JPEG2000.mov file in HD or SD
- 100 Mbit/s data rate per channel
- 4:2:2 sampling
- 10 bit resolution
- 8 Embedded audio channels per HD video channel
- 4 Embedded audio channels per SD video channel
- 4 channels AES or 2 channels analog audio per video channel
- SD/HD-SDI 50/59.94 FPS Support
- Conforms to industry digital specification;
SMPTE 259M-C and SMPTE 292(HD-SDI)
- Genlock input
- SMPTE/EBU Longitudinal & Ancillary Time Code
- Chase Lock
- Discrete access to every frame
- Uses two 2.5" SATA drives
- Loop record feature
- Instant cueing and clip recall
- Playlist management and clip naming from the front panel
- Dynamic tracking
- Variable speed noise-free playback forward and reverse



The Fast Forward Video OMEGA HD is a broadcast quality Tapeless Digital Video Recorder able to deliver HD or SD images using exceptional quality JPEG2000 compression, saving disk space while giving you random access and non-linear benefits of solid-state disk media with impeccable image quality. Available in dual channel or simultaneous play and record (SPR) configurations.

The SPR configuration allows you to replay that slow motion clip while recording the action without missing a second.

Recording times vary according to disk size. Omega units offer removable, hot swappable 2.5" SATA drives and feature SATA and USB ports for video download.

VIDEO INPUT/OUTPUT

Digital Input/Output:
Standards: SD/HD-SDI
SMPTE 274M (1080i)
SMPTE 296M (720p)
SMPTE 347M (NTSC & PAL)
SMPTE 334M-1 (closed caption)
SMPTE 334M-2 (closed caption)
SMPTE 12M-2-2008 (ancillary time code)

Genlock Input: 60 Hz: Blackburst SMPTE 170 M;
50 Hz: ITU-R BT.470; 75 ohm

Supported Resolutions: 1080i/60/59.94/50/24
(1920 x 1080/60/59.94/50/2:1 Interlace)
720p/60/59.94/50
(1280 x 720/60/59.94/50/Progressive)
720p/23.98/24.00
NTSC (720 x 486/59.94/2:1 Interlace)
PAL (720 x 576/50/2:1 Interlace)
Supports 4:3 or 16:9 aspect ratio

Connections: BNC 75 ohms

DIGITAL AUDIO INPUT/OUTPUT

Digital Input/Output: 8 Channels embedded HD-SDI
4 Channels embedded SD-SDI
4 Channels AES

Connections: BNC connectors unbalanced

DIGITAL AUDIO SPECIFICATIONS

Resolution: 24 bits
Audio Channels: HD embedded 8 in/8 out
SD embedded 4 in/4 out
4 Channels AES/EBU
(these replace embedded channels 1-4)
Sampling Rate: 48 KHz

ANALOG AUDIO INPUT/OUTPUT (option replaces AES)

Analog Input/Output: Stereo Balanced
Connections: XLR Connectors

ANALOG AUDIO SPECIFICATIONS

Resolution: 16 bits
Audio Channels: 2 in 2 out (per video channel)
Dynamic Range: 80 dB
Harmonic Distortion: 0.22%, -73dB
Output Impedance: 600 ohms
Sampling Rate: 48 KHz
Passband: .045 FS
Passband Ripple: +/- 0.1 dB

COMMUNICATION INTERFACE

RS-422 Interface: 38400 baud
Protocols: Sony Remote -1 (9 Pin)
Odetics
Fast Forward Video Native

HARD DRIVES

Maximum Hard Drives: 1 TB per channel
Supported Hard Drives: 2.5" SATA HDD or SSD Drive
Supports 9.5mm drive height

TIME CODE

SMPTE/EBU Longitudinal (LTC)
Ancillary (ATC) SMPTE 12M-2 2008

VIDEO COMPRESSION

Method: Motion JPEG2000 (J2K)
File Format: QuickTime or Native
Maximum Bit Rate: HD:100Mbit/s
SD: 50 Mbit/s

GENERAL

Physical Dimensions: 3.5"H x 17"W x 15" D
2RU
Power Consumption: 125 Watts
Operating Temperature: 0c to 50c
Humidity: 90% relative humidity with no visible condensation

WARRANTY

1 Year Parts & Labor



Fast Forward Video

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